

PTO/SB/08A (10-01)
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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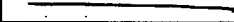


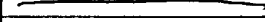
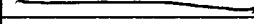







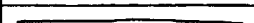


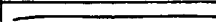
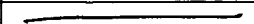
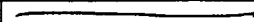
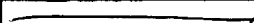


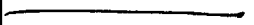




(use as many sheets as necessary)

Sheet 1 of 24

Complete if Known

Application Number	09/724,570
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

U.S. PATENT DOCUMENTS

		Document Number			
Examiner	Cite No. ¹	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	360	2003/0073655 A1	04-17-2003	Chain	
	370	2003/0068325 A1	04-10-2003	Wang	
	378	2002/0197258 A1	12-26-2003	Ghanbari et al.	
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Examiner
Signature

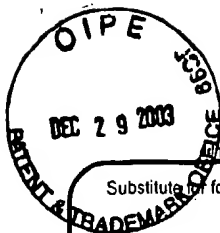
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STATEMENT BY APPLICANT**

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Sheet 2 of 24

Complete if Known

Application Number	09/724,570
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

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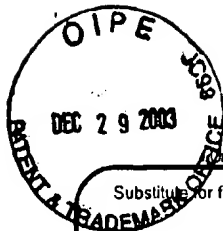
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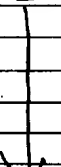








Sheet 3 of 24

Complete if Known



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Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

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181	5,270,165	12-14-1993	Van Nostrand et al.	
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CITED PARENT DOCUMENTS					
		Document Number			
Examiner	Cite No. ¹	Number Kind Code ² (if known)	Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	296	60/254,465	12-08-2000	Holtzman et al.	
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	305	09/724,842	11-28-2000	Chalifour et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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	343	EP	1 172 378	A1	01-16-2002			
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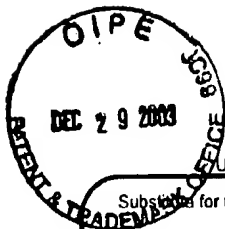
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Sheet

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of

24

Complete if Known

Application Number

09/724,570

Filing Date

November 28, 2000

First Named Inventor

Schenk, Dale B.

Art Unit

1647

Examiner Name

Christopher Nichols

Attorney Docket Number

015270-005914US

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50	EP	440 619	B1	01-24-1996			
51	EP	359 783	B1	11-29-1995			
52	EP	276 723	B1	12-08-1993			Yes
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341	WO	02/03911	A2	04-07-2001			
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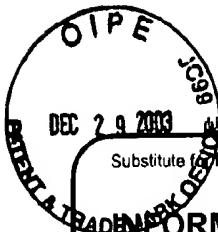
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Sheet 5 of 24

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First Named Inventor	Schenk, Dale B.
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Examiner Name	Christopher Nichols
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Examiner
Signature

G. Nichols

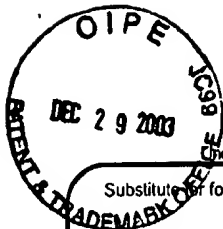
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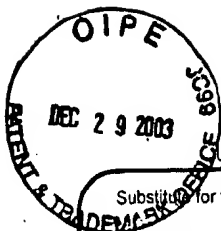
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² Applicant's unique citation designation number (optional). ³ Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 7 of 24

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Application Number	09/724,570
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ES	391	AGUZZI et al., "Prion research: the next frontiers," <u>Nature</u> , 389:795-798 (1997).	—
	393	AKIYAMA et al., "Inflammation and Alzheimer's disease," <u>Neurobiology of Aging</u> , 21:383-421 (2000).	—
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	404	BENJAMINI and LESKOWITZ, from <u>IMMUNOLOGY A Short Course</u> , Second Edition, Chapter 4, Antibody Structure, pages 49-65, 1991, published by Wiley-Liss, Inc., New York, New York.	—
✓	204	BERCOVICI et al., "Chronic Intravenous Injections of Antigen Induce and Maintain Tolerance in T Cell Receptor-Transgenic Mice," <u>Eur. J. Immunol.</u> , 29:345-354 (1999).	—
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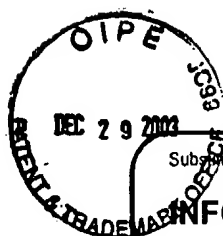
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 8 of 24

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Application Number	09/724,570
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

97	BLASS, "Immunologic Treatment of Alzheimer's Disease," <u>New England J. Medicine</u> , 341(22):1694 (1999).	<input checked="" type="checkbox"/>
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99	BORCHELT et al., "Accelerated Amyloid Deposition in the Brains of Transgenic Mice Coexpressing Mutant Presenilin 1 and Amyloid Precursor Proteins," <u>Neuron</u> , 19: 939-945 (1997).	<input checked="" type="checkbox"/>
100	BORIS-LAWRIE et al., "Recent advances in retrovirus vector technology," <u>Cur. Opin. Genetic Develop.</u> , 3: 102-109 (1993).	<input checked="" type="checkbox"/>
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327	CAMERON, "Recent Advances in Transgenic Technology," <u>Molecular Biotechnology</u> , 7:253-265 (1997).	<input type="checkbox"/>
285	CAPUTO et al., "Therapeutic approaches targeted at the amyloid proteins in Alzheimer's disease," <u>Clin. Neuropharm.</u> , 15:414A-414B (1992).	<input type="checkbox"/>
224	Center for Biologics Evaluation and Research, U.S. Food and Drug Administration, Thimerosal in Vaccines (Mercury in Plasma-Derived Products), web site contents found at : http://www.fda.gov/cber/vaccine/thimerosal.htm , last updated May 16, 2002.	<input type="checkbox"/>
102	CHAO et al., "Transforming Growth Factor- β Protects human Neurons Against β -Amyloid-Induced Injury," <u>Soc. Neurosci. Abstracts</u> , 19:513-7 (1993).	<input checked="" type="checkbox"/>
266	CHAPMAN, "Model behavior," <u>Nature</u> , 408:915-916 (2000).	<input type="checkbox"/>
349	CHECK, "Battle of the Mind," <u>Nature</u> , 422:370-372 (March 2003).	<input type="checkbox"/>
222	Chemical Abstract database, Abstract of "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals," Chemical Abstract database. (Publication date unknown.)	<input type="checkbox"/>
332	CHEN et al., "Neurodegenerative Alzheimer-like pathology in PDAPP 717V \rightarrow F transgenic mice," <u>Progress in Brain Research</u> , Van Leeuwen et al. Eds, 117:327-337 (1998).	<input type="checkbox"/>
213	CHEN et al., "An Antibody to β Amyloid Precursor Protein Inhibits Cell-substratum Adhesion in Many Mammalian Cell Types," <u>Neuroscience Letters</u> , 125:223-226 (1991).	<input type="checkbox"/>

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 9 of 24

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Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

CSO	307	CHEN et al., "A learning deficit related to age and beta-amyloid plaques in a mouse model of Alzheimer's disease," <u>Nature</u> , 408(6815):975-9 (2000).	—
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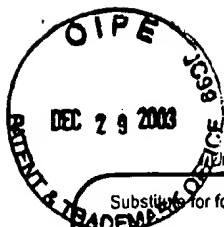
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Sheet 10 of 24

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Application Number	09/724,570
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

288	DUMERY et al., " β -Amyloid protein aggregation: its implication in the physiopathology of Alzheimer's disease," <u>Pathol. Biol.</u> , 49:72-85 (2001).	—
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108	FLANDERS et al., "Altered expression of transforming growth factor- β in Alzheimer's disease," <u>Neurology</u> , 45:1561-1569 (1995).	—
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246	FRENKEL et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," <u>Vaccine</u> , 19:2615-2619 (2001).	—

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		Filing Date	November 28, 2000		
		First Named Inventor	Schenk, Dale B.		
		Art Unit	1647		
		Examiner Name	Christopher Nichols		
Sheet	11	of	24	Attorney Docket Number	015270-005914US

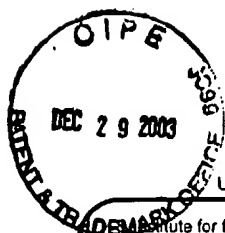
50	245	FRENKEL et al., "High affinity binding of monoclonal antibodies to the sequential epitope EFRH of β -amyloid peptide is essential for modulation of fibrillar aggregation," <u>J. of Neuroimmunology</u> , 95:136-142 (1999).	—
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	364	FURLAN et al., "Vaccination with amyloid- β peptide induces autoimmune encephalomyelitis in C57/BL6 mice," <u>Brain</u> , 126:285-291 (2003).	—
	109	GAMES et al., "Alzheimer-type neuropathology in transgenic mice overexpressing V717F β -amyloid precursor protein," <u>Nature</u> , 373(6514): 523-527 (1995).	—
	215	GAMES et al., "Prevention and Reduction of AD-type Pathology in PDAPP Mice Immunized with $A\beta_{1-42}$," <u>Annals of the New York Academy of Science</u> 920:274-84 (2000).	—
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	251	GARDELLA et al., "Intact Alzheimer amyloid precursor protein (APP) is present in platelet membranes and is encoded by platelet mRNA," <u>Biochem. Biophys. Res. Comm.</u> , 173:1292-1298 (1990).	—
	111	GASKIN et al., "Human antibodies reactive with beta-amyloid protein in Alzheimer's disease," <u>J. Exp. Med.</u> , 177:1181-1186 (1993).	—
50	252	GEDDES, "N-terminus truncated β -amyloid peptides and C-terminus truncated secreted forms of amyloid precursor protein: distinct roles in the pathogenesis of Alzheimer's disease," <u>Neurobiology of Aging</u> , 20:75-79 (1999).	—

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		Filing Date	November 28, 2000
		First Named Inventor	Schenk, Dale B.
		Art Unit	1647
		Examiner Name	Christopher Nichols
Sheet 12 of 24	Attorney Docket Number	015270-005914US	

253	GIULIAN, et al., "The HHQK Domain of b-Amyloid Provides a Structural Basis for the Immunopathology of Alzheimer's Disease," <u>Journal of Biological Chem.</u> , 273:29719-29726 (1998).	
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388	GOLDFARB et al., "The Transmissible Spongiform Encephalopathies," <u>Ann. Rev. Med.</u> , 46:57-65 (1995).	
397	GOLDSTEINS et al., "Goldsteins et al., Exposure of cryptic epitopes on transthyretin only in amypoid and in amyloidogenic mutants," <u>PNAS</u> , 96:3108-3113 (1999).	
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116	GOZES et al., "Neuroprotective strategy for Alzheimer disease: Intranasal administration of a fatty neuropeptide," <u>PNAS USA</u> , 93:427-432 (1996).	
190	GRAVINA et al., "Amyloid β Protein (A β) in Alzheimer's Disease," <u>J. Biol. Chem.</u> , 270(13):7013-7016 (1995).	
254	GRUBECK-LOEBENSTEIN, et al., "Immunization with β -amyloid: could T-cell activation have a harmful effect?", <u>TINS</u> , 23:114 (2000).	
117	GUPTA et al., "Differences in the immunogenicity of native and formalized cross reacting material (CRM197) of diphtheria toxin in mice and guinea pigs and their implications on the development and control of diphtheria vaccine based on CRMs," <u>Vaccine</u> , 15(12/13): 1341-1343 (1997).	
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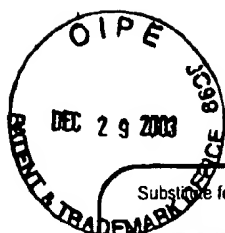
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Sheet 13

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Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

CS	118	HAGA et al., "Synthetic Alzheimer amyloid β /A4 peptides enhance production of complement C3 component by cultured microglial cells," <u>Brain Research</u> , 601:88-94 (1993).	—
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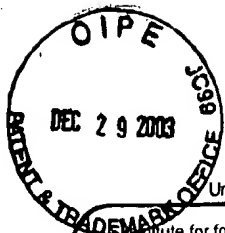
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		Application Number	09/724,570		
		Filing Date	November 28, 2000		
		First Named Inventor	Schenk, Dale B.		
		Art Unit	1647		
		Examiner Name	Christopher Nichols		
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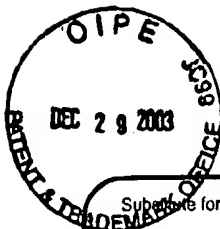
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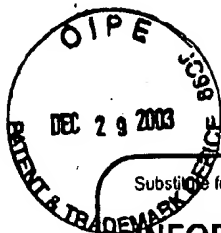
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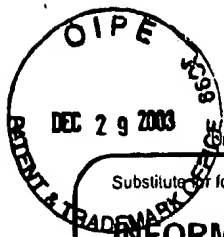
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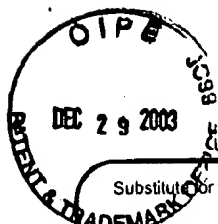
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 20 of 24

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Application Number	09/724,570
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

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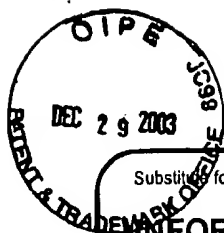
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Sheet 22 of 24

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Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

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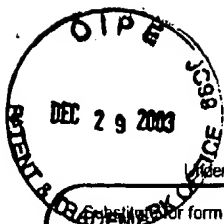
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		Filing Date	November 28, 2000
		First Named Inventor	Schenk, Dale B.
		Art Unit	1647
		Examiner Name	Christopher Nichols
Sheet	23	of	24
		Attorney Docket Number	015270-005914US

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Examiner Signature		Date Considered	3/25/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 24 of 24

Complete if Known

Application Number	09/724,570
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005914US

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